Neues Jahrbuch für Mineralogie

Monatshefte

QE
351
N48

Begründet 1807

Herausgegeben von **G. T. Faust** Madison/New Jersey
K. R. Mehnert Berlin
H. O'Daniel † Frankfurt a. M.

Jahrgang 1977 · Mit zahlreichen Abbildungen und Tabellen im Text

E. SCHWEIZERBART'SCHE VERLAGSBUCHHANDLUNG
(Nägele u. Obermiller)
Stuttgart 1977

Alle Rechte, auch das der Übersetzung, vorbehalten

Printed in Germany

Jegliche Vervielfältigung einschließlich photomechanischer Wiedergabe der in dem Band enthaltenen Beiträge oder Teile daraus nur mit ausdrücklicher Genehmigung durch den Verlag

A. Oelschlägersche Buchdruckerei GmbH, Calw

Inhalt

Alietti, A., Brigatti, M. F. & Poppi, L.: Natural Ca-rich clinoptilolites (heulandites of group 3): new data and review. With 3 figures and 2 tables in the text 493

Allmann, R.: Refinement of the hybrid layer structure $[Ca_2Al(OH)_6]^+ \cdot [\frac{1}{2}SO_4 \cdot 3H_2O]^-$. With 3 figures and 3 tables in the text . . . 136

Appel, P. W. U.: Aeolian differentiation of basaltic tuffs in the Early Precambrian Isua supracrustal belt, West Greenland. With 1 figure and 1 table in the text 521

Araya, R. A., Bowles, J. F. W. & Simpson, P. R.: Reflectance and composition of a single crystal of chalcopyrite from El Teniente ore deposit, Central Chile. With 2 figures and 2 tables in the text . . 461

– – – Relationships between composition and reflectance in the tennantite-tetrahedrite series of El Teniente ore deposit, Chile. With 7 figures and 5 tables in the text 467

Baller, Th. s. Schreyer, W.

Bank, H. s. Petrov, I.

Behr, H. J., Oehlschlegel, G. & Rummel, F.: Thermally induced deformations in quartz single crystals with oriented anhydrite inclusions. With 2 figures and 1 table in the text 320

Benimoff, A. I. & Pingitore, N. E., Jr.: Fe–Mg differentiation in the lunar rocks: Resolution through factor analysis. With 6 figures and 1 table in the text 84

Bernardini, G. P., Mazzetti, G., Sega, A. & Tanelli, G.: The CuS–CuSe vertical section of the Cu–S–Se system. With 3 figures and 2 tables in the text 299

Biste, M.: Stratabound polymetallic and F-Ba-deposits of the Sarrabus-Gerrei region, SE-Sardinia. V. Report: The hypothermal Cu-As mineralization with occurrence of wolframite-scheelite near Muravera/SE-Sardinia. With 5 figures and 2 tables in the text . . . 548

Bowles, J. F. W. s. Araya, R. A.

Breitbart, R. s. Winkler, H. G. F.

Brigatti, M. F. s. Alietti, A.

Campbell, E. Y. s. Greenland, L. P.

Capedri, S., Garuti, G., Rivalenti, G. & Rossi, A.: The origin of the Ivrea-Verbano basic formation – pyroxenitic and gabbroic mobilisates as products of partial melting of mantle peridotite. With 2 figures and 4 tables in the text 168

Chakraborty, D. & Lehmann, G.: Infrared studies of X-ray irradiated and heat treated synthetic quartz single crystals. With 1 figure and 4 tables in the text 289

Corazza, E., Sabelli, C. & Vannucci, S.: Dawsonite: new mineralogical data and structure refinement. With 6 figures and 6 tables in the text 381

Cortelezzi, C. R.: Occurrence of osarizawaite in Argentina. With 1 figure and 3 tables in the text 39

Das, B. K. s. Winkler, H. G. F.

Daugherty, F. W. s. Tunell, G.

Dawson, J. B., Smith, J. V. & Hervig, R. L.: Late-stage diopside in kimberlite groundmass. With 7 figures and 4 tables in the text . 529

Deelman, J. C.: Interference microscopy and the mechanical analysis of petrofabrics. With 5 figures in the text 180

De Pieri, R. & Jobstraibizer, P. G.: On some biotites from Adamello Massif (Northern Italy). With 2 figures and 2 tables in the text 15

De Pieri, R., Molin, G. & Zollet, R.: Anorthoclases or plagioclases? A problem of nomenclature. With 2 figures and 2 tables in the text 413

Dimitriadis, S.: Cuprian fraipontite from Laurion, Greece. With 2 figures and 2 tables in the text 155

Eysel, H. H. s. Petrov, I.

Fahey, J. J. s. Tunell, G.

Fattahi, A. R. & Winkler, H. G. F.: Der Einfluß des Diopsids auf den foidhaltigen Bereich des Bowenschen Residualsystems. [Influence of diopside on the foid-containing part of Bowen's residual system.] Mit 7 Abbildungen und 3 Tabellen im Text 433

Fransolet, A.-M. s. Knorring, O. von

Garuti, G. s. Capedri, S.

Gibbs, G. V. s. Tunell, G.

Gieren, A. s. Pertlik, F.

Greenland, L. P. & Campbell, E. Y.: Variation of Se, Te, In, Tl, and Zn with differentiation of tholeiitic magma. With 2 figures and 1 table in the text 112

Grundmann, G. s. Morteani, G.

Güse, C. s. Wagner, G.

Hervig, R. L. s. Dawson, J. B.

Higgins, J. B. & Ribbe, P. H.: The classification of vertex-sharing octahedral chain structures. With 2 figures and 2 tables in the text 310

Hill, R. J. s. Milnes, A. R.

Jobstraibizer, P. G. s. De Pieri, R.

Joswig, W., Korekawa, M. & Wilson, S.: Neutron and X-ray diffraction study on the superstructure of a sodium-rich low plagioclase $An_{16.5}$. With 2 figures in the text 132

Kato, T.: Further refinement of the woodhouseite structure. With 3 tables in the text 54

Kelly, W. C. & Wagner, G. A.: Paleothermometry by combined application of fluid inclusion and fission track methods. With 4 figures and 2 tables in the text 1

Kimata, M.: On the decomposition of danburite. With 3 figures and 3 tables in the text 222

Knorring, O. von & Fransolet, A.-M.: Gatumbaite, $CaAl_2(PO_4)_2(OH)_2 \cdot H_2O$: a new species from Buranga pegmatite, Rwanda. With 1 figure and 5 tables in the text 561

Korekawa, M. s. Joswig, W.

Koritnig, S.: Die Polarisationsfarben im Auflicht bei Drehung des Analysators um 180°. [The colours of polarization in reflected light during rotation of the analyzer through 180°.] Mit 7 Abbildungen im Text 279

Küstner, D. s. Schwab, R. G.

Lehmann, E.: Reply to the note "Keratophyre defined" of C. J. Hughes. With 2 figures in the text 193

Lehmann, G. s. Chakraborty, D.

Makovicky, E. & M.: Arabic geometrical patterns – a treasury for crystallographic teaching. With 7 figures in the text 58

Makovicky, M. & Rose-Hansen, J.: Teflon capsule for hydrothermal runs in high-pressure bombs. With 1 figure in the text . . 559

Makovicky, M. s. Makovicky, E.

Mazzetti, G. s. Bernardini, G. P.

Mehrotra, B. N: Phase diagram and crystallography of the system Na_2SeO_4–K_2SeO_4. With 2 figures and 5 tables in the text . . . 398

Mehta, P. K. & Rex, D. C.: K–Ar geochronology of the Kulu-Mandi Belt, NW Himalaya, India. With 1 figure and 1 table in the text 343

Merlino, S. & Orlandi, P.: Franzinite, a new mineral phase from Pitigliano (Italy). With 4 tables in the text 163

Miller, Ch.: Detrital ferroglaucophane from the Cenomanian Walserberg series, Salzburg, Austria. With 1 figure and 1 table in the text 544

Milnes, A. R. & Hill, R. J.: Preparation of synthetic scholzite, hopeite and tarbuttite and their comparison with natural material. With 6 figures and 2 tables in the text 25

Molin, G. s. De Pieri, R.

Morteani, G. & Grundmann, G.: The emerald porphyroblasts in the penninic rocks of the central Tauern Window. With 3 figures in the text 509

Morten, L., Ormaasen, D. E. & Mottana, A.: U, Th, and K determinations on the superferrian Voltri eclogites (Pennidic Belt, Italy). With 1 table in the text 248

Mottana, A. s. Morten, L.

Němec, D.: The granulite from Drahonín (western Moravia, Czechoslovakia). With 10 figures and 2 tables in the text 69

– Carbonates of the pegmatites from Dolní Bory (western Moravia). With 2 figures and 1 table in the text 517

Neuhaus, A. s. Voigt, R.

Oehlschlegel, G. s. Behr, H. J.

Orlandi, P. s. Merlino, S.

Ormaasen, D. E. s. Morten, L.

Passaglia, E., Pongiluppi, D. & Rinaldi, R.: Merlinoite, a new mineral of the zeolite group. With 5 figures and 3 tables in the text 355

Pertlik, F. & Gieren, A.: Verfeinerung der Kristallstruktur von Mackayit, Fe(OH) [Te_2O_5]. [Structure refinement of mackayite, Fe(OH) [Te_2O_5].] Mit 2 Abbildungen und 5 Tabellen im Text . . 145

Petrov, I., Schmetzer, K. & Bank, H.: Violette Topase aus Pakistan. [Purple topaz from Pakistan.] (Kurze Originalmitteilung) 483

Petrov, I., Schmetzer, K. & Eysel, H. H.: Absorptionsspektren von Chrom in Topas. [Absorption spectra of chromium in topaz.] Mit 3 Abbildungen und 1 Tabelle im Text 365

Pingitore, N. E. s. Benimoff, A. I.

Plimer, I. R.: Bannisterite from Broken Hill, Australia. With 2 tables in the text 504

Pongiluppi, D. s. Passaglia, E.

Poppi, L. s. Alietti, A.

Propach, G.: Variscan granitization in the Regensburger Wald, West Germany. With 7 figures and 5 tables in the text 97

Rex, D. C. s. Mehta, P. K.

Ribbe, P. H. s. Higgins, J. B.

Rinaldi, R. s. Passaglia, E.

Rivalenti, G. s. Capedri, S.

Roonwal, G. S. s. Wadhawan, S. K.

Rose-Hansen, J. s. Makovicky, M.

Rossi, A. s. Capedri, S.

Rummel, F. s. Behr, H. J.

Sabelli, C. s. Corazza, E.

Sapountzis, E. S. & Venetopoulos, C. Ch.: A superstructure wollastonite from Drama area (Northern Greece). With 3 tables in the text 216

Schmetzer, K. s. Petrov, I.

Schneider, H.: Mechanical deformation and structural state of experimentally shock-loaded oligoclases. With 8 figures in the text . . 255

Schorscher, H. D.: Direkte Verdrängung von Plagioklas durch Allophan in präkambrischen Amphiboliten aus Minas Gerais, Brasilien. [Replacement of plagioclase by allophane in Precambrian amphibolites from Minas Gerais, Brazil.] Mit 6 Abbildungen und 1 Tabelle im Text 270

Schreyer, W. & Baller, Th.: Talc–muscovite: synthesis of a new high-pressure phyllosilicate assemblage. With 2 figures in the text 421

Schumann, H.: Mikroreflexionsmessungen bei schrägem Lichteinfall, ausgeführt an Antimonit. [Measurements of microreflectance at oblique incidence of light tested with stibnite.] Mit 2 Abbildungen und 1 Tabelle im Text 485

Schwab, R. G. & Küstner, D: Präzisionsgitterkonstantenbestimmung zur Festlegung röntgenographischer Bestimmungskurven für synthetische Olivine der Mischkristallreihe Forsterit–Fayalit. [Precise determination of lattice constants to establish X-ray determinative curves for synthetic olivines of the solid solution series forsterite–fayalite.] Mit 6 Abbildungen und 2 Tabellen im Text 205

Sega, A. s. Bernardini, G. P.

Seifert, K.-F. s. Voigt, R.

Simpson, P. R. s. Araya, R. A.

Slansky, E.: Plumbogummite from Ivanhoe Mine, Northern Territory, Australia. With 4 figures and 2 tables in the text 45

Smith, J. V. s. Dawson, J. B.

Srivastava, R. K.: A comprehensive atomic absorption and spectrophotometric scheme for the determination of major and trace elements in rocks and minerals. With 3 tables in the text 425

Tanelli, G. s. Bernardini, G. P.

't Hart, J. & Wessicken, R.: The morphology of cobalt-olivine (CO_2SiO_4). With 4 figures in the text 408

Tunell, G., Fahey, J. J., Daugherty, F. W. & Gibbs, G. V.: Gianellaite, a new mercury mineral. [Gianellait, ein neues Quecksilbermineral.] With 1 figure and 3 tables in the text 119

Vannucci, S. s. Corazza, E.

Venetopoulos, C. Ch. s. Sapountzis, E. S.

Voigt, R., Seifert, K.-F. & Neuhaus, A.: Ein Beitrag zum System Al_2O_3–H_2O unter hohen Drücken. [To the system Al_2O_3–H_2O under high pressures.] (Kurze Mitteilung) 238

Wadhawan, S. K. & Roonwal, G. S.: Genetic significance of tourmaline associated with sulphide mineralization at Zawar area, Udaipur, Rajasthan, India. With 2 figures in the text 233

Wagner, G. & Güse, C.: Karbonate in Sinkstoffen aus Bodenseezuflüssen. [Carbonates in suspended solids of affluents to Lake Constance.] Mit 1 Abbildung und 1 Tabelle im Text 199

Wagner, G. A. s. Kelly, W. C.

Wang, N.: The symmetry of robinsonite. With 1 figure in the text . . 501

Wessicken, R. s. 't Hart, J.

Wilson, J. R.: Farsundite – a suitable term for charnockite nomenclature? With 2 figures and 2 tables in the text 324

Wilson, S. s. Joswig, W.

Winkler, H. G. F. s. Fattahi, A. R.

Winkler, H. G. F., Das, B. K. & Breitbart, R.: Further data of low-temperature melts existing on the quartz + plagioclase + liquid + vapour isobaric cotectic surface within the system Qz–Ab–Or–An–H_2O. With 1 figure and 1 table in the text 241

Wirsching, U.: Experimental studies on hydrothermal alteration of feldspars to montmorillonite and kaolinite minerals. With 2 tables in the text 333

Zakrzewski, M. A.: Högbomite from the Fe–Ti deposit of Liganga (Tanzania). With 8 figures and 2 tables in the text 373

Zigan, F.: Zum Einfluß der Metall-Sauerstoff-Bindungen auf die OH-Streckfrequenz in Metallhydroxiden und basischen Salzen. [On the influence of the metal-oxygen bonds on the OH-stretching frequency in metal hydroxides and basic salts.] Mit 1 Abbildung und 1 Tabelle im Text 455

Zollet, R. s. De Pieri, R.

Tagungen

Bochum: 55. Jahrestagung der Deutschen Mineralogischen Gesellschaft, 6.–8. 9. 1977 96

Hamburg: V. Internationales Salz-Symposium, 29. 5.–1. 6. 1978 . . . 144

London: Konferenz zum 50. Jahrestag der Entdeckung der Elektronenbeugung, 19.–21. 9. 1977 192

Novosibirsk: 11th General Meeting of the International Mineralogical Association, 3–11 September 1978 332